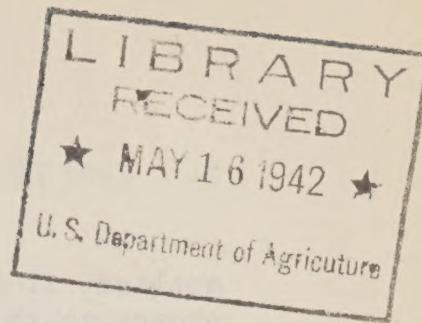


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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Entomology and Plant Quarantine
Washington, D. C.



February 23, 1942

The attached statement summarizes the results of the 1941 trap-scouting to secure information on the distribution and possible status of the Japanese beetle in localities outside of the area regulated by Federal quarantine. As a part of this report there is included a list of all the localities outside the regulated area where trap-scouting was carried on and beetles found during the current or preceding seasons. This list records the results for the years 1931-1941, inclusive.

In some localities, notably in Florida, where beetles were trapped during 1940, no beetles were found in 1941. In a number of locations where beetles had been trapped in 1940 and where soil treatment had been applied in advance of the 1941 season, the beetles collected were fewer in number than in 1940 even though more traps were operated in 1941. Such conditions prevail in most of the areas where soil treating has been carried on and illustrate the benefits of the cooperative effort to use this procedure to suppress outlying infestations and prevent them from developing rapidly into new centers of spread.

The 1941 season was the fourth one in which the State of Maryland carried on operations to retard the spread of the Japanese beetle and reduce the intensity of the infestations in areas where they are known to occur. It is believed that these retardation efforts have contributed in delaying rapid increase in abundance in at least some sections and to retarding the spread of the beetle. It will be necessary to add only a limited amount of territory to the regulated area in that State.

Soil treating programs to suppress outlying infestations have been completed, or definitely arranged for, in Georgia, Illinois, Indiana, Michigan, Ohio, and Vermont. Soil treatment has been completed in one area in New York and in the expectation that treatment will be applied at Niagara Falls, consideration of adding this section to the regulated area at this time is being deferred.

Extensive soil treatment has been completed in North Carolina except for Elizabeth City and the three closely neighboring localities of Spencer, East Spencer, and Salisbury. At these points it is hoped to apply treatment later on and consideration of their status is consequently temporarily postponed. The infestation at Asheville, North Carolina, is confined to a very small area from which no products likely to carry the beetle are shipped. With the cooperative quarantine enforcement and the suppressive measures that have been

applied, it is believed that other action is not now required in reference to this infestation.

The collection of 18 beetles at Greenville, South Carolina, indicates the persistence of infestation there. The question of treatment for this area has not been finally determined. It is hoped it will be possible to safeguard this infestation in such a way as to delay the extension into South Carolina of the Federal quarantine.

The beetle collections for the past season indicate, however, the need for extending the area regulated by the Federal quarantine to include limited sections in Maryland, New York, Pennsylvania, Virginia, and West Virginia. It is planned to make the necessary extensions in the regulated areas in these States in the near future and to make other minor modifications to improve the effectiveness of the Federal quarantine.

It is not contemplated to hold a hearing or conference to consider the extension of the regulated area or modifications of the regulations in advance of making these changes. The accompanying statement is issued in lieu of the report that might be presented at such a conference. It will make available to State plant quarantine officials and other interested parties the latest information on the distribution and status of the Japanese beetle in areas not now included under Federal quarantine.

Should it develop, however, that measures now under consideration cannot be taken in time to give fully satisfactory needed protection from possible spread from outlying sections where infestation exists, the entire situation will be reviewed, if necessary, at a public hearing.

P. N. ANNAND

Chief of Bureau

Attachments - 2

JAPANESE BEETLE TRAPPING AND CONTROL OPERATIONS DURING 1941

Trap scouting to determine the possible distribution and status of the Japanese beetle in localities outside the area regulated by the Federal quarantine was carried on in 462 localities in 39 States during the summer of 1941. In this work 78,509 traps were operated either throughout the period when beetles would be most likely to be present or throughout the entire period of beetle activity as indicated by conditions in various localities. In addition to the work in States now included under the Federal quarantine, some trapping was carried out in all non-quarantine States except Arkansas, Montana, Nevada, North Dakota, Oklahoma, and South Dakota.

No beetles were collected in 368 of the 462 localities where traps were operated, although in 33 of these, a few beetles were trapped during 1940. Of the 94 cities and towns outside the regulated area where beetles were collected, 25 were first-record finds and 69 were localities where specimens were taken in previous seasons. The 25 first-record collections are from localities in 9 States. At 12 of these only a single beetle was collected. At 4 others, 5 or fewer beetles were collected. At the remaining first-record localities soil treatment has been completed or arranged for, or the new locality is to be included within the regulated area.

Divided as to States, the communities in which beetles were trapped, were as follows: Georgia 4, Illinois 4, Indiana 10, Kentucky 1, Michigan 4, Missouri 2, New York 13, North Carolina 18, Ohio 15, Pennsylvania 3, South Carolina 4, Vermont 2, Virginia 11, West Virginia 3. Of these infestations, 37 are of an incipient nature or have been kept in check by suppressive efforts. Some of these have been treated, while in the remainder, the number of beetles collected was so few that quarantine action may be safely deferred for the present year. In the other 57 localities the collections indicate infestations are well established or are of considerable scope. These are located in close proximity to the regulated area or are in a State carrying on a cooperative soil treating program. Satisfactory soil treatments have been applied or are assured in 44 of the latter infestations. There remain 13 cities and towns in these States where consideration of soil treatment is not yet concluded.

Cooperative State Soil Treating

Soil treatments in varying amounts were completed during the fall of 1941 in the States of Georgia, Illinois, Indiana, Michigan, Missouri, New York, North Carolina, and Ohio. As was the case in 1940, the most extensive treatments were those in North Carolina and Ohio, with acreages this year of 309.4 and 195 1 either already treated or assured of treatment in the respective States.

In North Carolina, soil treatments have been satisfactorily completed in Burlington, Charlotte, Durham, Greensboro, High Point, Raleigh, Rocky Mount, Wilmington, and Winston-Salem. An additional 300 acres have been inoculated with the milky disease at Asheville, where the infestation is still localized on a large estate. This section, as well as the previously regulated area in the State, continues under a State quarantine. A Federal employee is assigned to the regulatory work in Asheville. No treatments have been required in Goldsboro, Hendersonville, Lexington, Weldon, and Wilson, because of the few beetles involved. At Sanford, where soil treatments were applied in the spring and fall of 1939 and the fall of 1940, beetles did not reappear in 1941. Additional soil treatment was not applied in the fall of 1941 at the infestations in East Spencer, Elizabeth City, Salisbury, and Spencer. Soil treatments were applied in each of these four localities in the fall of 1940.

Ohio infestations at Ashtabula, Belpre, Bucyrus, Conneaut, East Conneaut, Gallipolis, and Van Wert have been adequately treated with lead arsenate. Material is on hand for the treatment of the infestations in New Concord, South Zanesville, and Zanesville as soon as operations can be resumed in the spring of 1942. The one beetle infestations at Caldwell, Cincinnati's Lunken Airport, Elyria, and Millersburg, and the Marietta infestation within previously treated area, do not warrant treating or quarantine action.

Treatments were applied in Atlanta and Chamblee, Georgia. All except one male beetle of those trapped in East Point, Georgia, were caught within previously treated area. The solitary find in Greenville did not warrant soil treatment there.

Satisfactory treatments have also been completed in both Chicago and Highland Park, Illinois. The few beetles trapped in East St. Louis and Bloomington in this State did not necessitate treating or Federal quarantining this year.

It was possible this year to greatly reduce the acreage requiring treatment in Indiana, since the only infestations of such scope as to demand treatment were at Elkhart, Fort Wayne, Hammond, Indianapolis, Logansport, Richmond, and Terre Haute. Work in these cities was completed in the fall of 1941. The negligible infestations at Bedford, Warsaw, and Whiting were not subject to treatment this year. Trapping disclosed a reduction from 160 beetles in 1940 to 21 beetles this year in Indianapolis as a result of the soil treatment of 114 acres there in 1940. There was no recurrence of the infestations in New Castle and South Bend where treatments were

made in 1940. The Whiting infestation of 60 beetles in 1940, subsequently treated, was reduced to 2 specimens during the past trapping season.

Michigan's cooperative soil treating program in 1941 extended to 36 acres in Birmingham, 92 acres in Dearborn, 57 acres in Detroit, and 3 acres in Melvindale. This was a complete coverage of all infested sections within the State.

As a result of previous years' treating programs, infestation in St. Louis, Missouri, was reduced from the 30 beetles captured in 1940 to 15 during the current year. Treatment of 55 acres was made to suppress this infestation. At Bridgetown, where the St. Louis-Lambert Airport is located, 11.4 acres were treated to cover the locations at which 3 beetles were trapped.

Cooperative treatments in New York State were limited to the application of lead arsenate to 63.5 acres in Newark.

Negotiations are under way with State officials for the soil treatment of infestations found during the past summer in Niagara Falls, New York, and Charleston, Florence, and Greenville, South Carolina.

Failure of the beetle to reappear in Miami, Florida, and the negligible nature of its occurrence in Louisville, Kentucky, this year obviated the need for any soil treatments in these States.

The Situation in Nonregulated Portions of Quarantined States

In addition to the infestation in Newark, New York, where treatments were completed, and that at Niagara Falls, where treatment is contemplated, there are 6 minor infestations and 5 infestations of 15 or more beetles each in the State. Extension of the regulated area is contemplated for all important infestations in the latter group.

An infestation of 51 beetles in Meadville is the only infestation of importance found in the State of Pennsylvania this year. Finds of 5 beetles each in Greenville and Wesleyville are of minor significance. Quarantine extension is contemplated to cover in the Meadville infestation.

Arrangement has been made for soil treatment in the city of Barre, Vermont, where 21 beetles were trapped. The solitary beetle caught in Montpelier does not warrant quarantine proceedings in that city.

Of the 11 Virginia infestations, only three are of particular significance. Quarantine extension is contemplated to include the infestations at Charlottesville, Danville, and Front Royal. Charlottesville has been under State quarantine since 1936 when beetles were found to persist in that city.

In Maryland, the State Horticultural Department continued its Japanese beetle suppression campaign with traps scattered throughout the State. These were responsible for the discovery of eight infestations in the nonregulated portion of the State. Three of these were first records. It is anticipated that a substantial section in northwestern Maryland, adjacent to the present regulated zone, will be taken under regulation this year. Several Calvert County infestations not involved in any movement of host material are being handled as control areas by the State, with substantial reductions at three points and a leveling off of the infestation at a fourth. Inoculation of the soil at these infestations with spores of the milky disease of the Japanese beetle grub is contemplated by the State during the coming year.

JAPANESE BEETLE TRAPPING
OUTSIDE PRESENT REGULATED AREA
1930 - 1941

Location	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931
	Traps	J.B.	Traps								
FLORIDA											
Jacksonville	600	-	600	5	-	-	792	-	-	-	400
Miami	300	-	600	2	12	-	778	-	-	-	400
Tampa	600	-	600	1	-	-	796	-	-	-	400
GEORGIA											
Atlanta	2369	24	3109	32	3200	40	3033	122	1487	6	396
Augusta	-	-	-	400	-	-	392	-	392	1	-
Chamblee	64	2	50	17	-	-	-	-	-	-	-
East Point	350	7	440	137	400	142	-	-	-	-	-
Gainesville	300	1	200	2	-	-	50	-	-	-	-
Jonesboro	-	-	83	-	60	-	15	3	-	-	-
Savannah	-	-	12	-	298	-	12	1	800	-	395
Toccoa	100	-	123	2	92	-	-	100	-	-	-
ILLINOIS											
Bloomington	300	1	-	-	-	-	395	-	-	-	-
Chicago	9200	407	10000	462	9838	549	9926	330	9980	384	7500
Cicero	400	-	800	-	800	2	600	5	400	1	-
East St. Louis	600	10	600	5	800	24	800	1	1234	3	1102
Elgin	300	-	-	-	-	-	385	-	388	1	-
Evanston	400	-	800	-	800	16	600	1	400	20	-
Highland Park	1100	5608	-	-	-	200	-	-	-	-	-
Oak Park	300	-	300	1	-	-	600	-	800	-	-
INDIANA											
Bedford	240	1	-	-	-	-	-	-	-	-	-
Bluffton	-	-	250	-	300	3	-	-	-	-	-
East Chicago	-	-	-	300	-	300	1	400	-	-	-
Elkhart	392	3	299	77	316	5	300	2	-	-	-
Fort Wayne	1236	2	1200	52	1600	105	1600	20	800	18	399
Hammond	324	3	300	-	50	3	400	-	400	-	-
Indianapolis	2514	21	2700	160	3280	76	3600	10	3500	12	3500
Logansport	317	5	313	13	400	98	400	8	300	1	2434
Muncie	195	-	-	400	1	-	-	400	-	-	-
New Castle	200	-	200	2	-	-	-	-	-	-	-
Richmond	327	4	300	7	400	1	-	400	-	-	48
South Bend	1126	-	1200	12	1600	-	1600	8	800	43	400
Terre Haute	430	18	-	-	-	-	-	-	397	3	-
Warsaw	195	2	194	60	300	2	-	-	-	-	-
Whiting	300	1	300	4	250	18	100	1	200	-	-
IOWA											
Ft. Madison	-	-	-	-	200	-	200	1	-	-	-
KENTUCKY											
Lexington	-	-	-	600	-	597	1	391	1	400	1
Louisville	1223	1	1200	4	1600	13	1566	62	800	10	800
MAINE											
Augusta	-	-	-	-	-	300	-	-	253	-	200
Bangor	-	-	325	9	400	5	260	3	-	301	-
Bar Harbor	-	-	95	4	-	-	100	-	-	120	1
Bath	-	-	-	-	150	-	200	2	-	175	-
Brunswick	-	-	-	-	175	-	200	1	-	71	-
Ellsworth	-	-	-	115	-	100	1	-	125	-	72
MARYLAND											
Aquasco	46	10	10	4	-	-	-	-	-	-	-
Baden	44	21	10	-	-	-	-	-	-	-	-
Beverly Beach	-	-	-	-	-	-	10	-	10	1	-
Chaptico	15	1	-	-	-	-	-	-	-	-	-
Chesapeake Bch.	-	-	-	-	-	-	-	-	-	-	-
& North Beach	206	60	200	228	-	33	-	10	1	10	-
Hancock	150	8	100	10	-	-	102	-	-	24	-
Hughesville	-	-	-	-	-	64	-	10	-	14	-
Kenwood Beach	-	-	-	-	-	-	-	10	3	-	-
Keymar	-	-	-	-	-	-	-	12	17	-	-
Leonardtown	100	7	225	4	-	1	192	-	10	-	-
Mechanicsville	-	-	-	-	-	50	2	10	-	25	3
Mount Savage	241	214	-	-	7	-	25	1	20	-	10
Myersville	82	415	-	-	-	-	-	-	-	-	70
Prince Fred-	-	-	-	-	-	-	-	-	-	-	-
erick	150	15	125	11	-	1	90	-	10	-	21
Sandy Spring	-	-	5	12	-	-	-	-	-	-	-
Seaside Park	-	-	-	-	-	-	-	10	1	10	-
Shadyside	-	-	100	9	-	3	82	-	10	1	-
Solomons	90	48	-	-	68	64	-	-	10	-	-
Solomons Is-	-	-	100	163	-	-	-	10	2	10	-
land	-	-	-	-	-	-	-	-	10	-	-
Union Bridge	101	134	100	4	-	-	-	-	15	2	50
Westernport	221	579	-	-	19	100	-	40	-	50	1
MICHIGAN											
Birmingham	200	2	200	-	200	6	-	-	-	-	-
Dearborn *	400	5	400	-	400	5	780	1	796	6	398
Detroit	7000	225	6000	252	5250	115	5313	82	5045	67	4686
Grosse Pointe	Farms	100	-	200	-	25	5	-	-	128	1
Highland Park	-	-	-	-	400	-	200	2	-	-	-
Melvindale	100	2	100	1	200	5	-	-	-	-	-
Pontiac	179	-	-	-	200	-	50	1	398	-	144

* Dearborn, Michigan - 1930 - 100 traps - no beetles

JAPANESE BEETLE TRAPPING
1930 - 1941

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* Traps were operated in 1941 in Asheville on a control basis to reduce infestation.

JAPANESE BEETLE TRAPPING
1930 - 1941

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LOCATION	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931
	Traps J.B.										
PENNSYLVANIA											
Greenville	300	5	300	2	200	1	-	100	-	195	-
Grove City	-	-	200	67	-	-	-	-	-	-	92
Meadville	400	51	400	16	400	7	-	198	-	300	-
Titusville	-	-	300	21	200	6	-	97	-	150	-
<u>Wesleyville</u>	100	5	65	1	-	-	-	41	-	-	-
SO. CAROLINA											
Charleston	300	5	300	12	-	794	2	783	2	730	11
Florence	200	7	200	8	12	-	12	297	-	300	-
Greenville	596	18	900	12	800	5	765	6	750	1	794
Spartanburg	300	1	-	-	-	-	-	398	-	400	-
TENNESSEE											
Bristol	-	-	-	-	200	-	172	-	151	-	175
VERMONT											
Barre	293	21	-	-	-	-	-	-	-	-	204
Montpelier	198	1	10	-	12	-	12	-	26	-	192
VIRGINIA											
Ashland	-	-	-	-	-	29	-	60	-	50	1
Berryville	100	9	100	7	30	3	33	-	-	100	7
Bon Air	-	-	-	-	-	-	-	12	3	10	14
Bristol	-	-	-	-	200	-	196	4	145	2	125
Buena-Vista	-	-	-	-	-	-	99	-	100	1	100
Charlottesville	250	577	-	-	-	-	-	397	68	400	29
Clifton-Forge	-	-	-	-	-	-	-	84	-	100	1
Courtland (South-Hampton County)	5	-	20	1	-	-	-	10	-	10	-
Danville	300	62	299	43	400	11	-	375	-	400	2
E. Highland Pk.	-	-	-	-	-	-	-	-	-	-	-
Franklin (South-Hampton County)	35	1	43	-	-	-	-	22	-	25	-
Front Royal	296	19	100	2	41	5	52	1	-	25	-
Harrisonburg	40	4	200	5	-	-	169	6	197	1	200
Hopewell	-	-	-	-	-	-	130	-	200	-	200
Luray	20	1	10	1	-	-	44	1	-	25	-
Lynchburg	300	-	-	-	400	-	-	789	-	399	-
Milford	-	-	-	-	22	1	17	3	10	5	-
Mt. Jackson	10	1	10	-	-	-	8	-	-	-	12
New Market	14	1	20	-	-	-	20	3	-	25	-
Orange	8	-	-	-	25	-	30	-	30	48	2
Petersburg	-	-	-	-	-	-	-	-	-	48	-
Pike	-	-	-	-	-	-	-	2	-	-	-
Pulaski	-	-	-	-	-	-	-	90	31	150	29
Rappahannock Academy	-	-	-	-	18	1	-	757	38	800	16
Roanoke	-	-	-	-	-	-	-	-	406	28	204
Route #2 (Fredericksburg)	-	-	-	-	-	-	2	2	-	-	-
South Hill	10	-	30	-	0	-	-	20	1	15	-
Staunton	24	-	-	-	-	-	198	7	200	2	200
Stephens City	5	2	-	-	10	-	10	-	-	192	3
Strasburg	13	-	25	2	-	-	10	-	-	-	36
Timberville	-	-	10	1	-	-	-	-	-	-	40
Unionville	-	-	-	-	20	1	9	-	-	-	-
Warsaw	-	-	-	-	20	-	15	1	10	-	9
Waynesboro	23	-	-	-	-	-	-	-	100	-	96
Woodstock	9	4	25	5	-	-	30	-	-	25	-
WEST VIRGINIA											
Berkeley Springs	-	-	-	-	-	30	-	-	-	35	-
Buckhannon	-	-	-	-	70	3	-	90	-	-	-
Elkins	-	-	-	-	70	2	-	125	-	-	-
Huntington	-	-	-	-	-	-	593	796	2	400	2
Faden City	40	8	25	2	-	40	-	-	-	400	1
Pensboro	19	4	-	-	-	-	-	-	-	-	-
Phillipi	-	-	-	-	25	2	-	-	-	-	-
Princeton	-	-	-	-	-	-	100	1	97	4	150
St. Mary's	30	-	25	1	-	40	-	-	-	150	3
Sistersville	40	71	20	1	-	56	-	-	-	168	6
Weston	-	-	-	-	70	1	-	101	-	150	1

